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### (54) ROTATING ELECTRIC MACHINE AND ROTOR THEREOF

#### (57) Abstract:

**PROBLEM TO BE SOLVED:** To obtain a rotating electric machine which makes it possible to moderate the reverse bending stress to the centrifugal force generated at the rotor conductor by the retaining ring provided to suppress the radial relative displacement occurring between a rotor core and a short-circuit ring and has high reliability and its rotor.

**SOLUTION:** A cutout 16 for moderating the radially outward bending stress generating at the conductor 9 by the heat generated at the time of operating a rotary electric machine and the centrifugal force due to the rotation is provided at the outer peripheral side (stator

side or at the outer peripheral side of a rotor core 7) of the rotor conductor 9, and a cutout 17 for alleviating the radially inward bending stress generated at the conductor 9 by the prepressure or the load on a retaining ring 11 is provided at the inner peripheral side (rotor shaft 12 side) of the conductor 9.

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